

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2421	japanese adj encephalitis or JEV	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/29 15:42
L2	527366	primer\$ or probe\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/29 15:42
L3	191049	nucleic adj acid	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/29 15:42
L4	227854	kit	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/29 15:42
L5	1053	I1 and I2 and I3 and I4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/29 15:53
L6	535612	fluoresc\$ or quench\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/29 15:43
L7	956	I5 and I6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/29 15:54
L8	3120510	modification\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/29 15:44
L9	2885	\$tert-butylbenzyl\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/29 15:45

## EAST Search History

L10	1336	I8 and I9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/29 15:45
L11	2	I7 and I10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/29 15:46
L12	44094	I2 and I3 and I4 and I6 and I8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/29 15:46
L13	192651	virus	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/29 15:47
L15	36042	I12 and I13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/29 15:47
L16	5	I10 and I15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/29 15:52
L17	213226	I2 and I8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/29 15:51
L18	53558	young.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/29 15:52
L19	1	I18 and I7 and I10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/29 15:52



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- Click on query # to add to strategy

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## Search

## Most Recent Queries

Time Result

#23	Related Articles for PubMed (Select 1713265)	16:03:28	<u>123</u>
#22	Related Articles for PubMed (Select 8279959)	16:03:19	<u>161</u>
#21	Related Articles for PubMed (Select 15956414)	16:03:13	<u>1003</u>
#20	Related Articles for PubMed (Select 16714845)	16:03:08	<u>104</u>
#19	Search amplification detection japanese encephalitis	16:03:04	<u>11</u>
#18	Search amplification detection japanese encephalitis JEV	16:02:54	<u>1</u>
#17	Search amplification detection west nile	16:02:43	<u>21</u>
#16	Search primer probe west nile	16:02:21	<u>3</u>
#15	Search primer probe japanese encephalitis	16:02:15	<u>4</u>
#14	Search kit primer probe japanese encephalitis	16:02:11	<u>0</u>
#13	Related Articles for PubMed (Select 15847927)	16:01:42	<u>850</u>
#12	Search japanese encephalitis nucleic acid detection	16:01:34	<u>34</u>
#11	Search japanese encephalitis	16:01:21	<u>2549</u>
#7	Search cy5 nucleotide	12:51:12	<u>107</u>
#5	Search cy5	12:50:42	<u>703</u>
#6	Search cy5 6-carboxyfluorescein	12:49:56	<u>2</u>
#3	Search quencher Cy5	12:42:32	<u>8</u>
#2	Search quencher Cy5 nucleotide	12:42:25	<u>2</u>
#1	Search Cy5	12:41:52	<u>703</u>

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May 22 2006 06:31:57

v. oligurige

ACCESSION AY369385  
 VERSION AY369385.1 GI:38326943  
 KEYWORDS .  
 SOURCE West Nile virus (WNV)  
 ORGANISM West Nile virus  
 Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
 Flavivirus; Japanese encephalitis virus group.  
 REFERENCE 1 (bases 1 to 464)  
 AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
 Kramer,L.D.  
 TITLE Genetic and phenotypic variation of West Nile virus in New York,  
 2000-2002  
 JOURNAL Unpublished  
 REFERENCE 2 (bases 1 to 464)  
 AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
 Kramer,L.D.  
 TITLE Direct Submission  
 JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State  
 Farm Rd., Slingerlands, NY 12159, USA  
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 Db 277 GGACTAGAGGTTAGAGGAGACCCGCGG 304

## RESULT 2

AY369386

LOCUS AY369386 464 bp RNA linear VRL 24-NOV-2004  
 DEFINITION West Nile virus strain 02002395 3' noncoding region, partial  
 sequence.

ACCESSION AY369386

VERSION AY369386.1 GI:38326944

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
 Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
 Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York,  
 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
 Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State  
 Farm Rd., Slingerlands, NY 12159, USA

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Db      277 GGACTAGAGGTTAGAGGAGACCCGCGG 304

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## RESULT 3

AY369387

LOCUS AY369387 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02002554 3' noncoding region, partial sequence.

ACCESSION AY369387

VERSION AY369387.1 GI:38326945

KEYWORDS .

SOURCE West Nile virus (WNV)

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ORGANISM West Nile virus
          Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;
          Flavivirus; Japanese encephalitis virus group.

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REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State Farm Rd., Slingerlands, NY 12159, USA

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Db      277 GGACTAGAGGTTAGAGGAGACCCGCGG 304

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## RESULT 4

AY369388

LOCUS AY369388 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02002640 3' noncoding region, partial sequence.

ACCESSION AY369388

VERSION AY369388.1 GI:38326946

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

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|||||

Db 277 GGACTAGAGGTTAGAGGAGACCCGCGG 304

## RESULT 5

AY369389

LOCUS AY369389 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02002681 3' noncoding region, partial sequence.

ACCESSION AY369389

VERSION AY369389.1 GI:38326947

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)  
 AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
 Kramer,L.D.  
 TITLE Direct Submission  
 JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State  
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## ORIGIN

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 Db 277 GGACTAGAGGTTAGAGGAGACCCGCGG 304

## RESULT 6

AY369390

LOCUS AY369390 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02002684 3' noncoding region, partial  
 sequence.

ACCESSION AY369390

VERSION AY369390.1 GI:38326948

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
 Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
 Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York,  
 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
 Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State  
 Farm Rd., Slingerlands, NY 12159, USA

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RESULT 7

AY369391  
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DEFINITION West Nile virus strain 02002735 3' noncoding region, partial sequence.  
ACCESSION AY369391  
VERSION AY369391.1 GI:38326949  
KEYWORDS .  
SOURCE West Nile virus (WNV)  
ORGANISM West Nile virus  
Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.  
REFERENCE 1 (bases 1 to 464)  
AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.  
TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002  
JOURNAL Unpublished  
REFERENCE 2 (bases 1 to 464)  
AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.  
TITLE Direct Submission  
JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State Farm Rd., Slingerlands, NY 12159, USA  
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Db 277 GGACTAGAGGTTAGAGGAGACCCGCGG 304

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AY369392  
LOCUS AY369392 464 bp RNA linear VRL 24-NOV-2004  
DEFINITION West Nile virus strain 02002758 3' noncoding region, partial sequence.  
ACCESSION AY369392  
VERSION AY369392.1 GI:38326950  
KEYWORDS .  
SOURCE West Nile virus (WNV)  
ORGANISM West Nile virus  
Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.



REFERENCE 1 (bases 1 to 464)  
 AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
 Kramer,L.D.  
 TITLE Genetic and phenotypic variation of West Nile virus in New York,  
 2000-2002  
 JOURNAL Unpublished  
 REFERENCE 2 (bases 1 to 464)  
 AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
 Kramer,L.D.  
 TITLE Direct Submission  
 JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State  
 Farm Rd., Slingerlands, NY 12159, USA  
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## RESULT 9

AY369393

LOCUS AY369393 464 bp RNA linear VRL 24-NOV-2004  
 DEFINITION West Nile virus strain 02002771 3' noncoding region, partial  
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ACCESSION AY369393

VERSION AY369393.1 GI:38326951

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus  
 Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
 Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
 Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York,  
 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
 Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State  
 Farm Rd., Slingerlands, NY 12159, USA

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## RESULT 10

AY369394

LOCUS AY369394 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02002831 3' noncoding region, partial  
sequence.

ACCESSION AY369394

VERSION AY369394.1 GI:38326952

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
Kramer,L.D.TITLE Genetic and phenotypic variation of West Nile virus in New York,  
2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State  
Farm Rd., Slingerlands, NY 12159, USA

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## ORIGIN

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Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 277 GGACTAGAGGTTAGAGGAGACCCGCGG 304

## RESULT 11

AY369395

LOCUS AY369395 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02002868 3' noncoding region, partial  
sequence.

ACCESSION AY369395

VERSION AY369395.1 GI:38326953  
 KEYWORDS .  
 SOURCE West Nile virus (WNV)  
 ORGANISM West Nile virus  
 Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
 Flavivirus; Japanese encephalitis virus group.  
 REFERENCE 1 (bases 1 to 464)  
 AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
 Kramer,L.D.  
 TITLE Genetic and phenotypic variation of West Nile virus in New York,  
 2000-2002  
 JOURNAL Unpublished  
 REFERENCE 2 (bases 1 to 464)  
 AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
 Kramer,L.D.  
 TITLE Direct Submission  
 JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State  
 Farm Rd., Slingerlands, NY 12159, USA  
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## ORIGIN

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 Best Local Similarity 100.0%; Pred. No. 5e-06;  
 Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 Db 277 GGACTAGAGGTTAGAGGAGACCCGCGG 304

## RESULT 12

AY369396

LOCUS AY369396 464 bp RNA linear VRL 24-NOV-2004  
 DEFINITION West Nile virus strain 02003011 3' noncoding region, partial  
 sequence.

ACCESSION AY369396

VERSION AY369396.1 GI:38326954

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
 Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
 Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York,  
 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
 Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State  
 Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

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## ORIGIN

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Db      277 GGACTAGAGGTTAGAGGAGACCCGCGG 304

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## RESULT 13

AY369397

LOCUS AY369397 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02003204 3' noncoding region, partial sequence.

ACCESSION AY369397

VERSION AY369397.1 GI:38326955

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

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## ORIGIN

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Query Match          100.0%;  Score 28;  DB 13;  Length 464;
Best Local Similarity 100.0%;  Pred. No. 5e-06;
Matches   28;  Conservative   0;  Mismatches   0;  Indels   0;  Gaps   0;

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        |||
Db      277 GGACTAGAGGTTAGAGGAGACCCGCGG 304

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## RESULT 14

AY369398

LOCUS AY369398 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02003535 3' noncoding region, partial sequence.

ACCESSION AY369398

VERSION AY369398.1 GI:38326956

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

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## ORIGIN

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Best Local Similarity 100.0%; Pred. No. 5e-06;

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|||||

Db 277 GGACTAGAGGTTAGAGGAGACCCGCGG 304

## RESULT 15

AY369399

LOCUS AY369399 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02003557 3' noncoding region, partial sequence.

ACCESSION AY369399

VERSION AY369399.1 GI:38326957

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
Kramer,L.D.  
TITLE Direct Submission  
JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State  
Farm Rd., Slingerlands, NY 12159, USA  
FEATURES Location/Qualifiers  
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ORIGIN

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Best Local Similarity 100.0%; Pred. No. 5e-06;  
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|||||  
Db 277 GGACTAGAGGTTAGAGGAGACCCGCGG 304

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Job time : 950.564 secs

## SCORE Search Results Details for Application 10815480 and Search Result us-10-815-480-8.oligo.rge.

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OM nucleic - nucleic search, using sw model

Run on: April 30, 2006, 20:47:48 ; Search time 848.718 Seconds  
(without alignments)  
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Perfect score: 25  
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Scoring table: OLIGO\_NUC  
Gapop 60.0 , Gapext 60.0

Searched: 5883141 seqs, 28421725653 residues

Word size : 1

Total number of hits satisfying chosen parameters: 11765110

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : GenEmbl:\*  
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11: gb\_sy:\*  
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Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	25	100.0	25	6	CQ897084	CQ897084 Sequence
2	25	100.0	25	6	CQ897085	CQ897085 Sequence
3	25	100.0	395	13	AF458358	AF458358 West Nile
4	25	100.0	451	13	AF458353	AF458353 West Nile
5	25	100.0	462	13	AF458350	AF458350 West Nile
6	25	100.0	463	13	AF458344	AF458344 West Nile
7	25	100.0	463	13	AF458347	AF458347 West Nile
8	25	100.0	463	13	AF458348	AF458348 West Nile
9	25	100.0	463	13	AF458355	AF458355 West Nile
10	25	100.0	463	13	AF458360	AF458360 West Nile
11	25	100.0	463	13	AF458361	AF458361 West Nile
12	25	100.0	464	13	AY369386	AY369386 West Nile
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26	25	100.0	464	13	AY369400	AY369400 West Nile
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## ALIGNMENTS

## RESULT 1

CQ897084

LOCUS CQ897084 25 bp DNA linear PAT 08-NOV-2004

DEFINITION Sequence 7 from Patent WO2004092412.

ACCESSION CQ897084



VERSION CQ897084.1 GI:55581917  
KEYWORDS .  
SOURCE synthetic construct  
ORGANISM synthetic construct  
other sequences; artificial sequences.  
REFERENCE 1  
AUTHORS Young,K.K.  
TITLE Compositions and methods for detecting certain flaviviruses,  
including members of the japanese encephalitis virus serogroup  
JOURNAL Patent: WO 2004092412-A 7 28-OCT-2004;  
Roche Diagnostics GmbH (DE); F.HOFFMANN-LA ROCHE AG (CH)  
FEATURES Location/Qualifiers  
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## RESULT 2

CQ897085  
LOCUS CQ897085 25 bp DNA linear PAT 08-NOV-2004  
DEFINITION Sequence 8 from Patent WO2004092412.  
ACCESSION CQ897085  
VERSION CQ897085.1 GI:55581918  
KEYWORDS .  
SOURCE synthetic construct  
ORGANISM synthetic construct  
other sequences; artificial sequences.  
REFERENCE 1  
AUTHORS Young,K.K.  
TITLE Compositions and methods for detecting certain flaviviruses,  
including members of the japanese encephalitis virus serogroup  
JOURNAL Patent: WO 2004092412-A 8 28-OCT-2004;  
Roche Diagnostics GmbH (DE); F.HOFFMANN-LA ROCHE AG (CH)  
FEATURES Location/Qualifiers  
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## ORIGIN

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RESULT 3  
AF458358

LOCUS AF458358 395 bp RNA linear VRL 18-JUN-2003  
DEFINITION West Nile virus strain AnMg798 nonstructural protein 5 gene,  
partial cds.  
ACCESSION AF458358  
VERSION AF458358.1 GI:21636495  
KEYWORDS .  
SOURCE West Nile virus (WNV)  
ORGANISM West Nile virus  
Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
Flavivirus; Japanese encephalitis virus group.  
REFERENCE 1 (bases 1 to 395)  
AUTHORS Beasley,D.W., Li,L., Suderman,M.T. and Barrett,A.D.  
TITLE Mouse neuroinvasive phenotype of West Nile virus strains varies  
depending upon virus genotype  
JOURNAL Virology 296 (1), 17-23 (2002)  
PUBMED 12036314  
REFERENCE 2 (bases 1 to 395)  
AUTHORS Beasley,D.W.C., Li,L., Suderman,M.T. and Barrett,A.D.T.  
TITLE Direct Submission  
JOURNAL Submitted (14-DEC-2001) Department of Pathology and WHO  
Collaborating Center for Tropical Diseases, The University of Texas  
Medical Branch, 301 University Blvd., Galveston, TX 77555-0609, USA  
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LOCUS AF458353 451 bp RNA linear VRL 18-JUN-2003  
DEFINITION West Nile virus strain G-15578 nonstructural protein 5 gene,  
partial cds.  
ACCESSION AF458353  
VERSION AF458353.1 GI:21636485  
KEYWORDS .  
SOURCE West Nile virus (WNV)  
ORGANISM West Nile virus  
Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
Flavivirus; Japanese encephalitis virus group.  
REFERENCE 1 (bases 1 to 451)  
AUTHORS Beasley,D.W., Li,L., Suderman,M.T. and Barrett,A.D.

TITLE Mouse neuroinvasive phenotype of West Nile virus strains varies depending upon virus genotype  
 JOURNAL Virology 296 (1), 17-23 (2002)  
 PUBMED 12036314  
 REFERENCE 2 (bases 1 to 451)  
 AUTHORS Beasley,D.W.C., Li,L., Suderman,M.T. and Barrett,A.D.T.  
 TITLE Direct Submission  
 JOURNAL Submitted (14-DEC-2001) Department of Pathology and WHO Collaborating Center for Tropical Diseases, The University of Texas Medical Branch, 301 University Blvd., Galveston, TX 77555-0609, USA  
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Qy 1 GTAAGCCCTCAGAACCGTCTCGGAA 25  
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 Db 370 GTAAGCCCTCAGAACCGTCTCGGAA 394

## RESULT 5

AF458350

LOCUS AF458350 462 bp RNA linear VRL 18-JUN-2003

DEFINITION West Nile virus strain AnD-27875 nonstructural protein 5 gene, partial cds.

ACCESSION AF458350

VERSION AF458350.1 GI:21636479

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
 Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 462)

AUTHORS Beasley,D.W., Li,L., Suderman,M.T. and Barrett,A.D.

TITLE Mouse neuroinvasive phenotype of West Nile virus strains varies  
 depending upon virus genotype

JOURNAL Virology 296 (1), 17-23 (2002)

PUBMED 12036314

REFERENCE 2 (bases 1 to 462)

AUTHORS Beasley,D.W.C., Li,L., Suderman,M.T. and Barrett,A.D.T.

TITLE Direct Submission

JOURNAL Submitted (14-DEC-2001) Department of Pathology and WHO  
 Collaborating Center for Tropical Diseases, The University of Texas  
 Medical Branch, 301 University Blvd., Galveston, TX 77555-0609, USA

FEATURES Location/Qualifiers

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Matches   25;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;
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RESULT 6  
AF458344

LOCUS AF458344 463 bp RNA linear VRL 18-JUN-2003  
DEFINITION West Nile virus strain 68856 nonstructural protein 5 gene, partial cds.

ACCESSION AF458344  
VERSION AF458344.1 GI:21636467  
KEYWORDS .

SOURCE West Nile virus (WNV)  
ORGANISM West Nile virus  
Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 463)  
AUTHORS Beasley,D.W., Li,L., Suderman,M.T. and Barrett,A.D.  
TITLE Mouse neuroinvasive phenotype of West Nile virus strains varies depending upon virus genotype  
JOURNAL Virology 296 (1), 17-23 (2002)  
PUBMED 12036314  
REFERENCE 2 (bases 1 to 463)  
AUTHORS Beasley,D.W.C., Li,L., Suderman,M.T. and Barrett,A.D.T.  
TITLE Direct Submission  
JOURNAL Submitted (14-DEC-2001) Department of Pathology and WHO Collaborating Center for Tropical Diseases, The University of Texas Medical Branch, 301 University Blvd., Galveston, TX 77555-0609, USA

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FEATURES
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ORIGIN

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Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTAAGCCCTCAGAACCGTCTCGGAA 25  
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RESULT 7  
AF458347  
LOCUS AF458347 463 bp RNA linear VRL 18-JUN-2003  
DEFINITION West Nile virus strain EthAn4766 nonstructural protein 5 gene,  
partial cds.  
ACCESSION AF458347  
VERSION AF458347.1 GI:21636473  
KEYWORDS .  
SOURCE West Nile virus (WNV)  
ORGANISM West Nile virus  
Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
Flavivirus; Japanese encephalitis virus group.  
REFERENCE 1 (bases 1 to 463)  
AUTHORS Beasley,D.W., Li,L., Suderman,M.T. and Barrett,A.D.  
TITLE Mouse neuroinvasive phenotype of West Nile virus strains varies  
depending upon virus genotype  
JOURNAL Virology 296 (1), 17-23 (2002)  
PUBMED 12036314  
REFERENCE 2 (bases 1 to 463)  
AUTHORS Beasley,D.W.C., Li,L., Suderman,M.T. and Barrett,A.D.T.  
TITLE Direct Submission  
JOURNAL Submitted (14-DEC-2001) Department of Pathology and WHO  
Collaborating Center for Tropical Diseases, The University of Texas  
Medical Branch, 301 University Blvd., Galveston, TX 77555-0609, USA  
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Best Local Similarity 100.0%; Pred. No. 0.00023;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTAAGCCCTCAGAACCGTCTCGGAA 25  
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Db 382 GTAAGCCCTCAGAACCGTCTCGGAA 406

## RESULT 8

AF458348

LOCUS AF458348 463 bp RNA linear VRL 18-JUN-2003

DEFINITION West Nile virus strain IbAn7019 nonstructural protein 5 gene, partial cds.

ACCESSION AF458348

VERSION AF458348.1 GI:21636475

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 463)

AUTHORS Beasley,D.W., Li,L., Suderman,M.T. and Barrett,A.D.

TITLE Mouse neuroinvasive phenotype of West Nile virus strains varies depending upon virus genotype

JOURNAL Virology 296 (1), 17-23 (2002)

PUBMED 12036314

REFERENCE 2 (bases 1 to 463)

AUTHORS Beasley,D.W.C., Li,L., Suderman,M.T. and Barrett,A.D.T.

TITLE Direct Submission

JOURNAL Submitted (14-DEC-2001) Department of Pathology and WHO Collaborating Center for Tropical Diseases, The University of Texas Medical Branch, 301 University Blvd., Galveston, TX 77555-0609, USA

FEATURES Location/Qualifiers

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/virion

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3'UTR

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Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTAAGCCCTCAGAACCGTCTCGGAA 25

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Db 382 GTAAGCCCTCAGAACCGTCTCGGAA 406

## RESULT 9

AF458355

LOCUS AF458355 463 bp RNA linear VRL 18-JUN-2003

DEFINITION West Nile virus strain Egypt101 nonstructural protein 5 gene, partial cds.

ACCESSION AF458355

VERSION AF458355.1 GI:21636489

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;

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REFERENCE 1 (bases 1 to 463)
AUTHORS   Beasley,D.W., Li,L., Suderman,M.T. and Barrett,A.D.
TITLE      Mouse neuroinvasive phenotype of West Nile virus strains varies
            depending upon virus genotype
JOURNAL    Virology 296 (1), 17-23 (2002)
PUBMED     12036314
REFERENCE 2 (bases 1 to 463)
AUTHORS     Beasley,D.W.C., Li,L., Suderman,M.T. and Barrett,A.D.T.
TITLE       Direct Submission
JOURNAL     Submitted (14-DEC-2001) Department of Pathology and WHO
            Collaborating Center for Tropical Diseases, The University of Texas
            Medical Branch, 301 University Blvd., Galveston, TX 77555-0609, USA
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Matches 25;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

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Db      382 GTAAGCCCTCAGAACCGTCTCGGAA 406

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RESULT 10
AF458360
LOCUS      AF458360          463 bp    RNA      linear    VRL 18-JUN-2003
DEFINITION West Nile virus strain 385-99 nonstructural protein 5 gene, partial
            cds.
ACCESSION  AF458360
VERSION    AF458360.1  GI:21636499
KEYWORDS   .
SOURCE     West Nile virus (WNV)
ORGANISM   West Nile virus
            Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;
            Flavivirus; Japanese encephalitis virus group.
REFERENCE 1 (bases 1 to 463)
AUTHORS     Beasley,D.W., Li,L., Suderman,M.T. and Barrett,A.D.
TITLE       Mouse neuroinvasive phenotype of West Nile virus strains varies
            depending upon virus genotype
JOURNAL     Virology 296 (1), 17-23 (2002)
PUBMED     12036314
REFERENCE 2 (bases 1 to 463)
AUTHORS     Beasley,D.W.C., Li,L., Suderman,M.T. and Barrett,A.D.T.
TITLE       Direct Submission
JOURNAL     Submitted (14-DEC-2001) Department of Pathology and WHO
            Collaborating Center for Tropical Diseases, The University of Texas

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Medical Branch, 301 University Blvd., Galveston, TX 77555-0609, USA

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Qy 1 GTAAGCCCTCAGAACCGTCTCGGAA 25  
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 Db 382 GTAAGCCCTCAGAACCGTCTCGGAA 406

## RESULT 11

AF458361

LOCUS AF458361 463 bp RNA linear VRL 18-JUN-2003

DEFINITION West Nile virus strain 31A nonstructural protein 5 gene, partial  
 cds.

ACCESSION AF458361

VERSION AF458361.1 GI:21636501

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
 Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 463)

AUTHORS Beasley,D.W., Li,L., Suderman,M.T. and Barrett,A.D.

TITLE Mouse neuroinvasive phenotype of West Nile virus strains varies  
 depending upon virus genotype

JOURNAL Virology 296 (1), 17-23 (2002)

PUBMED 12036314

REFERENCE 2 (bases 1 to 463)

AUTHORS Beasley,D.W.C., Li,L., Suderman,M.T. and Barrett,A.D.T.

TITLE Direct Submission

JOURNAL Submitted (14-DEC-2001) Department of Pathology and WHO  
 Collaborating Center for Tropical Diseases, The University of Texas  
 Medical Branch, 301 University Blvd., Galveston, TX 77555-0609, USA

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ORIGIN

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Db      382 GTAAGCCCTCAGAACCGTCTCGGAA 406

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## RESULT 12

AY369386

LOCUS AY369386 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02002395 3' noncoding region, partial sequence.

ACCESSION AY369386

VERSION AY369386.1 GI:38326944

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

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ORIGIN

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Matches 25;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

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Db      83 GTAAGCCCTCAGAACCGTCTCGGAA 107

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## RESULT 13

AY369387

LOCUS AY369387 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02002554 3' noncoding region, partial sequence.

ACCESSION AY369387

VERSION AY369387.1 GI:38326945

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus  
Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

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Qy 1 GTAAGCCCTCAGAACCGTCTCGGAA 25  
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Db 83 GTAAGCCCTCAGAACCGTCTCGGAA 107

## RESULT 14

AY369388

LOCUS AY369388 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02002640 3' noncoding region, partial sequence.

ACCESSION AY369388

VERSION AY369388.1 GI:38326946

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus  
Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

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/note="3' noncoding region"

ORIGIN

Query Match 100.0%; Score 25; DB 13; Length 464;

Best Local Similarity 100.0%; Pred. No. 0.00023;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 83 GTAAGCCCTCAGAACCGTCTCGGAA 107

## RESULT 15

AY369389

LOCUS AY369389 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02002681 3' noncoding region, partial sequence.

ACCESSION AY369389

VERSION AY369389.1 GI:38326947

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

source 1. .464

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Best Local Similarity 100.0%; Pred. No. 0.00023;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 83 GTAAGCCCTCAGAACCGTCTCGGAA 107

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SCORE 1.3 BuildDate: 12/06/2005
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## SCORE Search Results Details for Application 10815480 and Search Result us-10-815-480- 9.oligo.rge.

<a href="#">Score Home</a>	<a href="#">Retrieve Application</a>	<a href="#">SCORE System</a>	<a href="#">SCORE</a>	<a href="#">Comments /</a>
<a href="#">Page</a>	<a href="#">List</a>	<a href="#">Overview</a>	<a href="#">FAQ</a>	<a href="#">Suggestions</a>

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GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on: April 30, 2006, 20:47:48 ; Search time 848.718 Seconds  
(without alignments)  
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Scoring table: OLIGO\_NUC  
Gapop 60.0 , Gapext 60.0

Searched: 5883141 seqs, 28421725653 residues

Word size : 1

Total number of hits satisfying chosen parameters: 11765110

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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9: gb\_ro:\*  
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13: gb\_vi:\*  
14: gb\_htg:\*  
15: gb\_pl:\*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

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c	3	25	100.0	464	13	AY369386	AY369386 West Nile
c	4	25	100.0	464	13	AY369387	AY369387 West Nile
c	5	25	100.0	464	13	AY369388	AY369388 West Nile
c	6	25	100.0	464	13	AY369389	AY369389 West Nile
c	7	25	100.0	464	13	AY369390	AY369390 West Nile
c	8	25	100.0	464	13	AY369391	AY369391 West Nile
c	9	25	100.0	464	13	AY369392	AY369392 West Nile
c	10	25	100.0	464	13	AY369393	AY369393 West Nile
c	11	25	100.0	464	13	AY369394	AY369394 West Nile
c	12	25	100.0	464	13	AY369395	AY369395 West Nile
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c	19	25	100.0	464	13	AY369402	AY369402 West Nile
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c	41	25	100.0	10945	13	AF202541	AF202541 West Nile
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## ALIGNMENTS

## RESULT 1

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ACCESSION CQ897151

VERSION CQ897151.1 GI:55581984  
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SOURCE synthetic construct  
ORGANISM synthetic construct  
other sequences; artificial sequences.  
REFERENCE 1  
AUTHORS Young,K.K.  
TITLE Compositions and methods for detecting certain flaviviruses,  
including members of the japanese encephalitis virus serogroup  
JOURNAL Patent: WO 2004092412-A 74 28-OCT-2004;  
Roche Diagnostics GmbH (DE); F.HOFFMANN-LA ROCHE AG (CH)  
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Db 1 TCTCCTAGTCTATCCCAGGTGTCAA 25

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AY369385/c  
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DEFINITION West Nile virus strain 02002306 3' noncoding region, partial  
sequence.  
ACCESSION AY369385  
VERSION AY369385.1 GI:38326943  
KEYWORDS .  
SOURCE West Nile virus (WNV)  
ORGANISM West Nile virus  
Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
Flavivirus; Japanese encephalitis virus group.  
REFERENCE 1 (bases 1 to 464)  
AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
Kramer,L.D.  
TITLE Genetic and phenotypic variation of West Nile virus in New York,  
2000-2002  
JOURNAL Unpublished  
REFERENCE 2 (bases 1 to 464)  
AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
Kramer,L.D.  
TITLE Direct Submission  
JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State  
Farm Rd., Slingerlands, NY 12159, USA  
FEATURES Location/Qualifiers  
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Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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## RESULT 3

AY369386/c

LOCUS AY369386 464 bp RNA linear VRL 24-NOV-2004  
DEFINITION West Nile virus strain 02002395 3' noncoding region, partial  
sequence.

ACCESSION AY369386

VERSION AY369386.1 GI:38326944

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York,  
2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State  
Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

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## RESULT 4

AY369387/c

LOCUS AY369387 464 bp RNA linear VRL 24-NOV-2004  
DEFINITION West Nile virus strain 02002554 3' noncoding region, partial  
sequence.

ACCESSION AY369387

VERSION AY369387.1 GI:38326945

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus



Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

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/note="3' noncoding region"

## ORIGIN

Query Match 100.0%; Score 25; DB 13; Length 464;

Best Local Similarity 100.0%; Pred. No. 1.2e-05;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTCCTAGTCTATCCCAGGTGTC AA 25

|||||

Db 430 TCTCCTAGTCTATCCCAGGTGTC AA 406

## RESULT 5

AY369388/c

LOCUS AY369388 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02002640 3' noncoding region, partial sequence.

ACCESSION AY369388

VERSION AY369388.1 GI:38326946

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

source 1. .464

/organism="West Nile virus"

/mol\_type="genomic RNA"

/strain="02002640"

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                                /specific_host="American Crow"
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misc_feature <1..>464
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ORIGIN

Query Match      100.0%;  Score 25;  DB 13;  Length 464;
Best Local Similarity 100.0%;  Pred. No. 1.2e-05;
Matches 25;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

Qy      1 TCTCCTAGTCTATCCCAGGTGTCAA 25
        |||
Db      430 TCTCCTAGTCTATCCCAGGTGTCAA 406
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RESULT 6
AY369389/c
LOCUS      AY369389              464 bp    RNA      linear    VRL 24-NOV-2004
DEFINITION West Nile virus strain 02002681 3' noncoding region, partial
sequence.
ACCESSION  AY369389
VERSION    AY369389.1  GI:38326947
KEYWORDS   .
SOURCE     West Nile virus (WNV)
ORGANISM   West Nile virus
            Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;
            Flavivirus; Japanese encephalitis virus group.
REFERENCE  1  (bases 1 to 464)
AUTHORS    Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and
            Kramer,L.D.
TITLE      Genetic and phenotypic variation of West Nile virus in New York,
            2000-2002
JOURNAL    Unpublished
REFERENCE  2  (bases 1 to 464)
AUTHORS    Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and
            Kramer,L.D.
TITLE      Direct Submission
JOURNAL    Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State
            Farm Rd., Slingerlands, NY 12159, USA
FEATURES   Location/Qualifiers
            source          1..464
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                                /mol_type="genomic RNA"
                                /strain="02002681"
                                /specific_host="American Crow"
                                /db_xref="taxon:11082"
            misc_feature    <1..>464
                                /note="3' noncoding region"
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ORIGIN

Query Match      100.0%;  Score 25;  DB 13;  Length 464;
Best Local Similarity 100.0%;  Pred. No. 1.2e-05;
Matches 25;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

Qy      1 TCTCCTAGTCTATCCCAGGTGTCAA 25
        |||
Db      430 TCTCCTAGTCTATCCCAGGTGTCAA 406
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RESULT 7
AY369390/c
LOCUS      AY369390              464 bp    RNA      linear    VRL 24-NOV-2004
DEFINITION West Nile virus strain 02002684 3' noncoding region, partial
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sequence.

ACCESSION AY369390  
VERSION AY369390.1 GI:38326948  
KEYWORDS .  
SOURCE West Nile virus (WNV)  
ORGANISM West Nile virus  
Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)  
AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
Kramer,L.D.  
TITLE Genetic and phenotypic variation of West Nile virus in New York,  
2000-2002  
JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)  
AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
Kramer,L.D.  
TITLE Direct Submission  
JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State  
Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers  
source 1..464  
/organism="West Nile virus"  
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/strain="02002684"  
/specific\_host="American Crow"  
/db\_xref="taxon:11082"  
misc\_feature <1..>464  
/note="3' noncoding region"

## ORIGIN

Query Match 100.0%; Score 25; DB 13; Length 464;  
Best Local Similarity 100.0%; Pred. No. 1.2e-05;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTCCTAGTCTATCCCAGGTGTCAA 25  
|||||  
Db 430 TCTCCTAGTCTATCCCAGGTGTCAA 406

## RESULT 8

AY369391/c  
LOCUS AY369391 464 bp RNA linear VRL 24-NOV-2004  
DEFINITION West Nile virus strain 02002735 3' noncoding region, partial  
sequence.

ACCESSION AY369391  
VERSION AY369391.1 GI:38326949  
KEYWORDS .  
SOURCE West Nile virus (WNV)  
ORGANISM West Nile virus  
Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)  
AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
Kramer,L.D.  
TITLE Genetic and phenotypic variation of West Nile virus in New York,  
2000-2002  
JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)  
AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
Kramer,L.D.  
TITLE Direct Submission  
JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State

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Farm Rd., Slingerlands, NY 12159, USA
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               /db_xref="taxon:11082"
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ORIGIN

Query Match      100.0%;  Score 25;  DB 13;  Length 464;
Best Local Similarity 100.0%;  Pred. No. 1.2e-05;
Matches 25;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

Qy      1 TCTCCTAGTCTATCCCAGGTGTCAA 25
        |||
Db      430 TCTCCTAGTCTATCCCAGGTGTCAA 406


RESULT 9
AY369392/c
LOCUS      AY369392      464 bp      RNA      linear      VRL 24-NOV-2004
DEFINITION West Nile virus strain 02002758 3' noncoding region, partial
            sequence.
ACCESSION  AY369392
VERSION    AY369392.1  GI:38326950
KEYWORDS   .
SOURCE     West Nile virus (WNV)
ORGANISM   West Nile virus
            Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;
            Flavivirus; Japanese encephalitis virus group.
REFERENCE  1 (bases 1 to 464)
AUTHORS    Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and
            Kramer,L.D.
TITLE      Genetic and phenotypic variation of West Nile virus in New York,
            2000-2002
JOURNAL    Unpublished
REFERENCE  2 (bases 1 to 464)
AUTHORS    Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and
            Kramer,L.D.
TITLE      Direct Submission
JOURNAL    Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State
            Farm Rd., Slingerlands, NY 12159, USA
FEATURES
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               1..464
               /organism="West Nile virus"
               /mol_type="genomic RNA"
               /strain="02002758"
               /specific_host="American Crow"
               /db_xref="taxon:11082"
  misc_feature <1..>464
               /note="3' noncoding region"
ORIGIN

Query Match      100.0%;  Score 25;  DB 13;  Length 464;
Best Local Similarity 100.0%;  Pred. No. 1.2e-05;
Matches 25;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

Qy      1 TCTCCTAGTCTATCCCAGGTGTCAA 25
        |||
Db      430 TCTCCTAGTCTATCCCAGGTGTCAA 406

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## RESULT 10

AY369393/c

LOCUS AY369393 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02002771 3' noncoding region, partial sequence.

ACCESSION AY369393

VERSION AY369393.1 GI:38326951

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

source 1..464  
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/mol\_type="genomic RNA"  
/strain="02002771"  
/specific\_host="American Crow"  
/db\_xref="taxon:11082"  
misc\_feature <1..>464  
/note="3' noncoding region"

## ORIGIN

Query Match 100.0%; Score 25; DB 13; Length 464;

Best Local Similarity 100.0%; Pred. No. 1.2e-05;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTCCTAGTCTATCCCAGGTGTC AA 25

|||||

Db 430 TCTCCTAGTCTATCCCAGGTGTC AA 406

## RESULT 11

AY369394/c

LOCUS AY369394 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02002831 3' noncoding region, partial sequence.

ACCESSION AY369394

VERSION AY369394.1 GI:38326952

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002

JOURNAL Unpublished  
REFERENCE 2 (bases 1 to 464)  
AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
Kramer,L.D.  
TITLE Direct Submission  
JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State  
Farm Rd., Slingerlands, NY 12159, USA  
FEATURES Location/Qualifiers  
source 1. .464  
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/strain="02002831"  
/specific\_host="American Crow"  
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misc\_feature <1. .>464  
/note="3' noncoding region"

## ORIGIN

Query Match 100.0%; Score 25; DB 13; Length 464;  
Best Local Similarity 100.0%; Pred. No. 1.2e-05;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTCCTAGTCTATCCCAGGTGTCAA 25  
|||||  
Db 430 TCTCCTAGTCTATCCCAGGTGTCAA 406

## RESULT 12

AY369395/c

LOCUS AY369395 464 bp RNA linear VRL 24-NOV-2004  
DEFINITION West Nile virus strain 02002868 3' noncoding region, partial  
sequence.

ACCESSION AY369395

VERSION AY369395.1 GI:38326953

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York,  
2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State  
Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

source 1. .464  
/organism="West Nile virus"  
/mol\_type="genomic RNA"  
/strain="02002868"  
/specific\_host="American Crow"  
/db\_xref="taxon:11082"  
misc\_feature <1. .>464  
/note="3' noncoding region"

## ORIGIN

Query Match 100.0%; Score 25; DB 13; Length 464;

Best Local Similarity 100.0%; Pred. No. 1.2e-05;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTCCTAGTCTATCCCAGGTGTCAA 25  
|||||  
Db 430 TCTCCTAGTCTATCCCAGGTGTCAA 406

## RESULT 13

AY369396/c

LOCUS AY369396 464 bp RNA linear VRL 24-NOV-2004  
DEFINITION West Nile virus strain 02003011 3' noncoding region, partial  
sequence.

ACCESSION AY369396

VERSION AY369396.1 GI:38326954

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus  
Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York,  
2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State  
Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

source 1. .464  
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/mol\_type="genomic RNA"  
/strain="02003011"  
/specific\_host="American Crow"  
/db\_xref="taxon:11082"  
misc\_feature <1. .>464  
/note="3' noncoding region"

## ORIGIN

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Best Local Similarity 100.0%; Pred. No. 1.2e-05;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTCCTAGTCTATCCCAGGTGTCAA 25  
|||||  
Db 430 TCTCCTAGTCTATCCCAGGTGTCAA 406

## RESULT 14

AY369397/c

LOCUS AY369397 464 bp RNA linear VRL 24-NOV-2004  
DEFINITION West Nile virus strain 02003204 3' noncoding region, partial  
sequence.

ACCESSION AY369397

VERSION AY369397.1 GI:38326955

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus  
Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;

Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

source 1. .464

/organism="West Nile virus"

/mol\_type="genomic RNA"

/strain="02003204"

/specific\_host="American Crow"

/db\_xref="taxon:11082"

misc\_feature <1. .>464

/note="3' noncoding region"

## ORIGIN

Query Match 100.0%; Score 25; DB 13; Length 464;

Best Local Similarity 100.0%; Pred. No. 1.2e-05;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTCCTAGTCTATCCCAGGTGTCAA 25

|||||

Db 430 TCTCCTAGTCTATCCCAGGTGTCAA 406

## RESULT 15

AY369398/c

LOCUS AY369398 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02003535 3' noncoding region, partial sequence.

ACCESSION AY369398

VERSION AY369398.1 GI:38326956

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

source 1. .464

/organism="West Nile virus"

/mol\_type="genomic RNA"

/strain="02003535"

/specific\_host="American Crow"



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misc_feature      /db_xref="taxon:11082"
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                  /note="3' noncoding region"
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ORIGIN

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Best Local Similarity 100.0%; Pred. No. 1.2e-05;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTCCTAGTCTATCCCAGGTGTCAA 25  
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 Db 430 TCTCCTAGTCTATCCCAGGTGTCAA 406

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Job time : 849.718 secs

SCORE 1.3 BuildDate: 12/06/2005

VERSION CQ897084.1 GI:55581917  
 KEYWORDS .  
 SOURCE synthetic construct  
 ORGANISM synthetic construct  
 other sequences; artificial sequences.  
 REFERENCE 1  
 AUTHORS Young, K.K.  
 TITLE Compositions and methods for detecting certain flaviviruses,  
 including members of the japanese encephalitis virus serogroup  
 JOURNAL Patent: WO 2004092412-A 7 28-OCT-2004;  
 Roche Diagnostics GmbH (DE); F.HOFFMANN-LA ROCHE AG (CH)  
 FEATURES Location/Qualifiers  
     source 1. .25  
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             /mol\_type="unassigned DNA"  
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             /note="Koutango virus Primer 1"

## ORIGIN

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 Best Local Similarity 100.0%; Pred. No. 0.00032;  
 Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTAAGCCCTCAGAACCGTCTCGGAA 25  
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 Db 1 GTAAGCCCTCAGAACCGTCTCGGAA 25

## RESULT 2

CQ897085

LOCUS CQ897085 25 bp DNA linear PAT 08-NOV-2004

DEFINITION Sequence 8 from Patent WO2004092412.

ACCESSION CQ897085

VERSION CQ897085.1 GI:55581918

KEYWORDS .

SOURCE synthetic construct

ORGANISM synthetic construct

other sequences; artificial sequences.

REFERENCE 1

AUTHORS Young, K.K.

TITLE Compositions and methods for detecting certain flaviviruses,  
including members of the japanese encephalitis virus serogroupJOURNAL Patent: WO 2004092412-A 8 28-OCT-2004;  
Roche Diagnostics GmbH (DE); F.HOFFMANN-LA ROCHE AG (CH)

FEATURES Location/Qualifiers

source 1. .25  
             /organism="synthetic construct"  
             /mol\_type="unassigned DNA"  
             /db\_xref="taxon:32630"  
             /note="Example Primer 1"

## ORIGIN

Query Match 100.0%; Score 25; DB 6; Length 25;  
 Best Local Similarity 100.0%; Pred. No. 0.00032;  
 Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTAAGCCCTCAGAACCGTCTCGGAA 25  
 |||||  
 Db 1 GTAAGCCCTCAGAACCGTCTCGGAA 25

## RESULT 3

AF458358

8.0/196.192

LOCUS AF458358 395 bp RNA linear VRL 18-JUN-2003  
 DEFINITION West Nile virus strain AnMg798 nonstructural protein 5 gene, partial cds.  
 ACCESSION AF458358  
 VERSION AF458358.1 GI:21636495  
 KEYWORDS .  
 SOURCE West Nile virus (WNV)  
 ORGANISM West Nile virus  
 Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.  
 REFERENCE 1 (bases 1 to 395)  
 AUTHORS Beasley,D.W., Li,L., Suderman,M.T. and Barrett,A.D.  
 TITLE Mouse neuroinvasive phenotype of West Nile virus strains varies depending upon virus genotype  
 JOURNAL Virology 296 (1), 17-23 (2002)  
 PUBMED 12036314  
 REFERENCE 2 (bases 1 to 395)  
 AUTHORS Beasley,D.W.C., Li,L., Suderman,M.T. and Barrett,A.D.T.  
 TITLE Direct Submission  
 JOURNAL Submitted (14-DEC-2001) Department of Pathology and WHO Collaborating Center for Tropical Diseases, The University of Texas Medical Branch, 301 University Blvd., Galveston, TX 77555-0609, USA  
 FEATURES Location/Qualifiers  
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 /organism="West Nile virus"  
 /virion  
 /mol\_type="genomic RNA"  
 /strain="AnMg798"  
 /db\_xref="taxon:11082"  
 CDS <1. .174  
 /note="NS5"  
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 /protein\_id="AAM70024.1"  
 /db\_xref="GI:21636496"  
 /translation="DIWCGSLIGTRTRATWAENIHVAINQVRSLIGEGKYVDYMSSLR  
 RYEDTTVVEDTVL"  
 3'UTR 175. .>395  
 ORIGIN

Query Match 100.0%; Score 25; DB 13; Length 395;  
 Best Local Similarity 100.0%; Pred. No. 0.00023;  
 Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTAAGCCCTCAGAACCGTCTCGGAA 25  
 |||||  
 Db 314 GTAAGCCCTCAGAACCGTCTCGGAA 338

RESULT 4  
 AF458353  
 LOCUS AF458353 451 bp RNA linear VRL 18-JUN-2003  
 DEFINITION West Nile virus strain G-15578 nonstructural protein 5 gene, partial cds.  
 ACCESSION AF458353  
 VERSION AF458353.1 GI:21636485  
 KEYWORDS .  
 SOURCE West Nile virus (WNV)  
 ORGANISM West Nile virus  
 Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.  
 REFERENCE 1 (bases 1 to 451)  
 AUTHORS Beasley,D.W., Li,L., Suderman,M.T. and Barrett,A.D.

TITLE Mouse neuroinvasive phenotype of West Nile virus strains varies depending upon virus genotype  
JOURNAL Virology 296 (1), 17-23 (2002)  
PUBMED 12036314  
REFERENCE 2 (bases 1 to 451)  
AUTHORS Beasley,D.W.C., Li,L., Suderman,M.T. and Barrett,A.D.T.  
TITLE Direct Submission  
JOURNAL Submitted (14-DEC-2001) Department of Pathology and WHO Collaborating Center for Tropical Diseases, The University of Texas Medical Branch, 301 University Blvd., Galveston, TX 77555-0609, USA  
FEATURES Location/Qualifiers  
source 1. .451  
/organism="West Nile virus"  
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/strain="G-15578"  
/db\_xref="taxon:11082"  
CDS <1. .174  
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/translation="DIWCGSLIGTRARATWAENIQVAINQVRATIGEEKYVDYMSSLR  
RYEEVTLVEDSVL"  
3'UTR 175. .>451  
ORIGIN

Query Match 100.0%; Score 25; DB 13; Length 451;  
Best Local Similarity 100.0%; Pred. No. 0.00023;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTAAGCCCTCAGAACCGTCTCGGAA 25  
|||||  
Db 370 GTAAGCCCTCAGAACCGTCTCGGAA 394

## RESULT 5

AF458350

LOCUS AF458350 462 bp RNA linear VRL 18-JUN-2003  
DEFINITION West Nile virus strain AnD-27875 nonstructural protein 5 gene, partial cds.

ACCESSION AF458350

VERSION AF458350.1 GI:21636479

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 462)

AUTHORS Beasley,D.W., Li,L., Suderman,M.T. and Barrett,A.D.

TITLE Mouse neuroinvasive phenotype of West Nile virus strains varies depending upon virus genotype

JOURNAL Virology 296 (1), 17-23 (2002)

PUBMED 12036314

REFERENCE 2 (bases 1 to 462)

AUTHORS Beasley,D.W.C., Li,L., Suderman,M.T. and Barrett,A.D.T.

TITLE Direct Submission

JOURNAL Submitted (14-DEC-2001) Department of Pathology and WHO Collaborating Center for Tropical Diseases, The University of Texas Medical Branch, 301 University Blvd., Galveston, TX 77555-0609, USA

FEATURES Location/Qualifiers

source 1. .462

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3'UTR
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ORIGIN
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Db      381 GTAAGCCCTCAGAACCGTCTCGGAA 405
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RESULT 6
AF458344
LOCUS      AF458344          463 bp    RNA        linear    VRL 18-JUN-2003
DEFINITION West Nile virus strain 68856 nonstructural protein 5 gene, partial
            cds.
ACCESSION  AF458344
VERSION    AF458344.1  GI:21636467
KEYWORDS   .
SOURCE     West Nile virus (WNV)
ORGANISM   West Nile virus
            Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;
            Flavivirus; Japanese encephalitis virus group.
REFERENCE  1 (bases 1 to 463)
AUTHORS    Beasley,D.W., Li,L., Suderman,M.T. and Barrett,A.D.
TITLE      Mouse neuroinvasive phenotype of West Nile virus strains varies
            depending upon virus genotype
JOURNAL    Virology 296 (1), 17-23 (2002)
PUBMED     12036314
REFERENCE  2 (bases 1 to 463)
AUTHORS    Beasley,D.W.C., Li,L., Suderman,M.T. and Barrett,A.D.T.
TITLE      Direct Submission
JOURNAL    Submitted (14-DEC-2001) Department of Pathology and WHO
            Collaborating Center for Tropical Diseases, The University of Texas
            Medical Branch, 301 University Blvd., Galveston, TX 77555-0609, USA
FEATURES   Location/Qualifiers
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ORIGIN

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Best Local Similarity 100.0%; Pred. No. 0.00023;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTAAGCCCTCAGAACCGTCTCGGAA 25  
|||||  
Db 382 GTAAGCCCTCAGAACCGTCTCGGAA 406

## RESULT 7

AF458347

LOCUS AF458347 463 bp RNA linear VRL 18-JUN-2003

DEFINITION West Nile virus strain EthAn4766 nonstructural protein 5 gene,  
partial cds.

ACCESSION AF458347

VERSION AF458347.1 GI:21636473

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus  
Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 463)

AUTHORS Beasley,D.W., Li,L., Suderman,M.T. and Barrett,A.D.

TITLE Mouse neuroinvasive phenotype of West Nile virus strains varies  
depending upon virus genotype

JOURNAL Virology 296 (1), 17-23 (2002)

PUBMED 12036314

REFERENCE 2 (bases 1 to 463)

AUTHORS Beasley,D.W.C., Li,L., Suderman,M.T. and Barrett,A.D.T.

TITLE Direct Submission

JOURNAL Submitted (14-DEC-2001) Department of Pathology and WHO  
Collaborating Center for Tropical Diseases, The University of Texas  
Medical Branch, 301 University Blvd., Galveston, TX 77555-0609, USA

FEATURES Location/Qualifiers

source 1. .463  
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/note="NS5"  
/codon\_start=1  
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RYEDTTLVEDTVL"

3'UTR 175. .>463  
ORIGIN

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Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTAAGCCCTCAGAACCGTCTCGGAA 25  
|||||  
Db 382 GTAAGCCCTCAGAACCGTCTCGGAA 406

## RESULT 8

AF458348

LOCUS AF458348 463 bp RNA linear VRL 18-JUN-2003

DEFINITION West Nile virus strain IbAn7019 nonstructural protein 5 gene, partial cds.

ACCESSION AF458348

VERSION AF458348.1 GI:21636475

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 463)

AUTHORS Beasley,D.W., Li,L., Suderman,M.T. and Barrett,A.D.

TITLE Mouse neuroinvasive phenotype of West Nile virus strains varies depending upon virus genotype

JOURNAL Virology 296 (1), 17-23 (2002)

PUBMED 12036314

REFERENCE 2 (bases 1 to 463)

AUTHORS Beasley,D.W.C., Li,L., Suderman,M.T. and Barrett,A.D.T.

TITLE Direct Submission

JOURNAL Submitted (14-DEC-2001) Department of Pathology and WHO Collaborating Center for Tropical Diseases, The University of Texas Medical Branch, 301 University Blvd., Galveston, TX 77555-0609, USA

FEATURES Location/Qualifiers

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/virion

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/db\_xref="taxon:11082"

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/codon\_start=1

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/db\_xref="GI:21636476"

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RYEDTTLVEDTVL"

3'UTR

175. .&gt;463

ORIGIN

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Best Local Similarity 100.0%; Pred. No. 0.00023;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTAAGCCCTCAGAACCGTCTCGGAA 25

|||||

Db 382 GTAAGCCCTCAGAACCGTCTCGGAA 406

## RESULT 9

AF458355

LOCUS AF458355 463 bp RNA linear VRL 18-JUN-2003

DEFINITION West Nile virus strain Egypt101 nonstructural protein 5 gene, partial cds.

ACCESSION AF458355

VERSION AF458355.1 GI:21636489

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;

Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 463)

AUTHORS Beasley,D.W., Li,L., Suderman,M.T. and Barrett,A.D.

TITLE Mouse neuroinvasive phenotype of West Nile virus strains varies depending upon virus genotype

JOURNAL Virology 296 (1), 17-23 (2002)

PUBMED 12036314

REFERENCE 2 (bases 1 to 463)

AUTHORS Beasley,D.W.C., Li,L., Suderman,M.T. and Barrett,A.D.T.

TITLE Direct Submission

JOURNAL Submitted (14-DEC-2001) Department of Pathology and WHO Collaborating Center for Tropical Diseases, The University of Texas Medical Branch, 301 University Blvd., Galveston, TX 77555-0609, USA

FEATURES Location/Qualifiers

source 1. .463

/organism="West Nile virus"

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/db\_xref="taxon:11082"

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3'UTR 175. .>463

ORIGIN

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Best Local Similarity 100.0%; Pred. No. 0.00023;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTAAGCCCTCAGAACCGTCTCGGAA 25

|||||

Db 382 GTAAGCCCTCAGAACCGTCTCGGAA 406

## RESULT 10

AF458360

LOCUS AF458360 463 bp RNA linear VRL 18-JUN-2003

DEFINITION West Nile virus strain 385-99 nonstructural protein 5 gene, partial cds.

ACCESSION AF458360

VERSION AF458360.1 GI:21636499

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;

Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 463)

AUTHORS Beasley,D.W., Li,L., Suderman,M.T. and Barrett,A.D.

TITLE Mouse neuroinvasive phenotype of West Nile virus strains varies depending upon virus genotype

JOURNAL Virology 296 (1), 17-23 (2002)

PUBMED 12036314

REFERENCE 2 (bases 1 to 463)

AUTHORS Beasley,D.W.C., Li,L., Suderman,M.T. and Barrett,A.D.T.

TITLE Direct Submission

JOURNAL Submitted (14-DEC-2001) Department of Pathology and WHO

Collaborating Center for Tropical Diseases, The University of Texas



Medical Branch, 301 University Blvd., Galveston, TX 77555-0609, USA

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3'UTR  
175. .>463  
ORIGIN

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Best Local Similarity 100.0%; Pred. No. 0.00023;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTAAGCCCTCAGAACCGTCTCGGAA 25  
|||||  
Db 382 GTAAGCCCTCAGAACCGTCTCGGAA 406

## RESULT 11

AF458361

LOCUS AF458361 463 bp RNA linear VRL 18-JUN-2003

DEFINITION West Nile virus strain 31A nonstructural protein 5 gene, partial  
cds.

ACCESSION AF458361

VERSION AF458361.1 GI:21636501

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 463)

AUTHORS Beasley,D.W., Li,L., Suderman,M.T. and Barrett,A.D.

TITLE Mouse neuroinvasive phenotype of West Nile virus strains varies  
depending upon virus genotype

JOURNAL Virology 296 (1), 17-23 (2002)

PUBMED 12036314

REFERENCE 2 (bases 1 to 463)

AUTHORS Beasley,D.W.C., Li,L., Suderman,M.T. and Barrett,A.D.T.

TITLE Direct Submission

JOURNAL Submitted (14-DEC-2001) Department of Pathology and WHO  
Collaborating Center for Tropical Diseases, The University of Texas  
Medical Branch, 301 University Blvd., Galveston, TX 77555-0609, USA

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3'UTR          175. .>463
ORIGIN
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Qy          1  GTAAGCCCTCAGAACCGTCTCGGAA  25
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Db          382 GTAAGCCCTCAGAACCGTCTCGGAA  406
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## RESULT 12

AY369386

LOCUS AY369386 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02002395 3' noncoding region, partial sequence.

ACCESSION AY369386

VERSION AY369386.1 GI:38326944

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

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ORIGIN

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Qy          1  GTAAGCCCTCAGAACCGTCTCGGAA  25
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## RESULT 13

AY369387

LOCUS AY369387 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02002554 3' noncoding region, partial sequence.

ACCESSION AY369387

VERSION AY369387.1 GI:38326945

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus  
Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

source 1. .464  
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## ORIGIN

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Best Local Similarity 100.0%; Pred. No. 0.00023;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTAAGCCCTCAGAACCGTCTCGGAA 25  
|||||

Db 83 GTAAGCCCTCAGAACCGTCTCGGAA 107

## RESULT 14

AY369388

LOCUS AY369388 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02002640 3' noncoding region, partial sequence.

ACCESSION AY369388

VERSION AY369388.1 GI:38326946

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus  
Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

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/mol\_type="genomic RNA"

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/specific\_host="American Crow"

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misc\_feature <1. .>464

/note="3' noncoding region"

ORIGIN

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Best Local Similarity 100.0%; Pred. No. 0.00023;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 83 GTAAGCCCTCAGAACCGTCTCGGAA 107

## RESULT 15

AY369389

LOCUS AY369389 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02002681 3' noncoding region, partial sequence.

ACCESSION AY369389

VERSION AY369389.1 GI:38326947

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

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misc\_feature <1. .>464

/note="3' noncoding region"

ORIGIN

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Best Local Similarity 100.0%; Pred. No. 0.00023;

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|||||

Db 83 GTAAGCCCTCAGAACCGTCTCGGAA 107

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 ORGANISM synthetic construct  
 other sequences; artificial sequences.  
 REFERENCE 1  
 AUTHORS Young, K.K.  
 TITLE Compositions and methods for detecting certain flaviviruses,  
 including members of the japanese encephalitis virus serogroup  
 JOURNAL Patent: WO 2004092412-A 74 28-OCT-2004;  
 Roche Diagnostics GmbH (DE); F.HOFFMANN-LA ROCHE AG (CH)  
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 Db 1 TCTCCTAGTCTATCCCAGGTGTCAA 25

## RESULT 2

AY369385/c

LOCUS AY369385 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02002306 3' noncoding region, partial sequence.

ACCESSION AY369385

VERSION AY369385.1 GI:38326943

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
 Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel, G.D., Carricaburu, J.E., Young, D.S., Bernard, K.A. and Kramer, L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel, G.D., Carricaburu, J.E., Young, D.S., Bernard, K.A. and Kramer, L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers  
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## ORIGIN

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Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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|||||  
Db 430 TCTCCTAGTCTATCCCAGGTGTCAA 406

## RESULT 3

AY369386/c

LOCUS AY369386 464 bp RNA linear VRL 24-NOV-2004  
DEFINITION West Nile virus strain 02002395 3' noncoding region, partial  
sequence.

ACCESSION AY369386

VERSION AY369386.1 GI:38326944

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York,  
2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State  
Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

source 1. .464  
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/mol\_type="genomic RNA"  
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Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 430 TCTCCTAGTCTATCCCAGGTGTCAA 406

## RESULT 4

AY369387/c

LOCUS AY369387 464 bp RNA linear VRL 24-NOV-2004  
DEFINITION West Nile virus strain 02002554 3' noncoding region, partial  
sequence.

ACCESSION AY369387

VERSION AY369387.1 GI:38326945

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

```

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;
Flavivirus; Japanese encephalitis virus group.
REFERENCE 1 (bases 1 to 464)
AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and
Kramer,L.D.
TITLE Genetic and phenotypic variation of West Nile virus in New York,
2000-2002
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 464)
AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and
Kramer,L.D.
TITLE Direct Submission
JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State
Farm Rd., Slingerlands, NY 12159, USA
FEATURES Location/Qualifiers
source 1. .464
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/strain="02002554"
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misc_feature <1. .>464
/note="3' noncoding region"
ORIGIN

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Best Local Similarity 100.0%;  Pred. No. 1.2e-05;
Matches 25;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

Qy      1 TCTCCTAGTCTATCCCAGGTGTCAA 25
        |||
Db      430 TCTCCTAGTCTATCCCAGGTGTCAA 406

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RESULT 5
AY369388/c
LOCUS AY369388 464 bp RNA linear VRL 24-NOV-2004
DEFINITION West Nile virus strain 02002640 3' noncoding region, partial
sequence.
ACCESSION AY369388
VERSION AY369388.1 GI:38326946
KEYWORDS .
SOURCE West Nile virus (WNV)
ORGANISM West Nile virus
Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;
Flavivirus; Japanese encephalitis virus group.
REFERENCE 1 (bases 1 to 464)
AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and
Kramer,L.D.
TITLE Genetic and phenotypic variation of West Nile virus in New York,
2000-2002
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 464)
AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and
Kramer,L.D.
TITLE Direct Submission
JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State
Farm Rd., Slingerlands, NY 12159, USA
FEATURES Location/Qualifiers
source 1. .464
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/mol_type="genomic RNA"
/strain="02002640"

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misc_feature    <1..>464
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## ORIGIN

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Best Local Similarity 100.0%;  Pred. No. 1.2e-05;
Matches 25;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;
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Qy      1 TCTCCTAGTCTATCCCAGGTGTCAA 25
        |||
Db      430 TCTCCTAGTCTATCCCAGGTGTCAA 406
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## RESULT 6

AY369389/c

LOCUS AY369389 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02002681 3' noncoding region, partial sequence.

ACCESSION AY369389

VERSION AY369389.1 GI:38326947

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

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misc_feature <1..>464
             /note="3' noncoding region"
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## ORIGIN

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Best Local Similarity 100.0%;  Pred. No. 1.2e-05;
Matches 25;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;
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Qy      1 TCTCCTAGTCTATCCCAGGTGTCAA 25
        |||
Db      430 TCTCCTAGTCTATCCCAGGTGTCAA 406
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## RESULT 7

AY369390/c

LOCUS AY369390 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02002684 3' noncoding region, partial

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sequence.
ACCESSION      AY369390
VERSION        AY369390.1  GI:38326948
KEYWORDS       .
SOURCE         West Nile virus (WNV)
ORGANISM        West Nile virus
                Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;
                Flavivirus; Japanese encephalitis virus group.
REFERENCE      1  (bases 1 to 464)
AUTHORS        Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and
                Kramer,L.D.
TITLE          Genetic and phenotypic variation of West Nile virus in New York,
                2000-2002
JOURNAL        Unpublished
REFERENCE      2  (bases 1 to 464)
AUTHORS        Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and
                Kramer,L.D.
TITLE          Direct Submission
JOURNAL        Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State
                Farm Rd., Slingerlands, NY 12159, USA
FEATURES
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                /specific_host="American Crow"
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  misc_feature  <1. .>464
                /note="3' noncoding region"
ORIGIN

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Query Match          100.0%;  Score 25;  DB 13;  Length 464;
Best Local Similarity 100.0%;  Pred. No. 1.2e-05;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TCTCCTAGTCTATCCCAGGTGTCAA 25
        |||
Db      430 TCTCCTAGTCTATCCCAGGTGTCAA 406

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RESULT 8
AY369391/c
LOCUS      AY369391          464 bp    RNA      linear    VRL 24-NOV-2004
DEFINITION West Nile virus strain 02002735 3' noncoding region, partial
            sequence.
ACCESSION  AY369391
VERSION    AY369391.1  GI:38326949
KEYWORDS   .
SOURCE     West Nile virus (WNV)
ORGANISM    West Nile virus
            Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;
            Flavivirus; Japanese encephalitis virus group.
REFERENCE  1  (bases 1 to 464)
AUTHORS    Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and
            Kramer,L.D.
TITLE      Genetic and phenotypic variation of West Nile virus in New York,
            2000-2002
JOURNAL    Unpublished
REFERENCE  2  (bases 1 to 464)
AUTHORS    Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and
            Kramer,L.D.
TITLE      Direct Submission
JOURNAL    Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State

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Farm Rd., Slingerlands, NY 12159, USA
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    <1..>464
    /note="3' noncoding region"
ORIGIN

Query Match      100.0%;  Score 25;  DB 13;  Length 464;
Best Local Similarity  100.0%;  Pred. No. 1.2e-05;
Matches    25;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 TCTCCTAGTCTATCCCAGGTGTCAA 25
        |||
Db      430 TCTCCTAGTCTATCCCAGGTGTCAA 406

RESULT 9
AY369392/c
LOCUS      AY369392              464 bp    RNA      linear    VRL 24-NOV-2004
DEFINITION West Nile virus strain 02002758 3' noncoding region, partial
            sequence.
ACCESSION  AY369392
VERSION    AY369392.1  GI:38326950
KEYWORDS   .
SOURCE     West Nile virus (WNV)
ORGANISM   West Nile virus
            Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;
            Flavivirus; Japanese encephalitis virus group.
REFERENCE  1  (bases 1 to 464)
AUTHORS    Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and
            Kramer,L.D.
TITLE      Genetic and phenotypic variation of West Nile virus in New York,
            2000-2002
JOURNAL    Unpublished
REFERENCE  2  (bases 1 to 464)
AUTHORS    Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and
            Kramer,L.D.
TITLE      Direct Submission
JOURNAL    Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State
            Farm Rd., Slingerlands, NY 12159, USA
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ORIGIN

Query Match      100.0%;  Score 25;  DB 13;  Length 464;
Best Local Similarity  100.0%;  Pred. No. 1.2e-05;
Matches    25;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 TCTCCTAGTCTATCCCAGGTGTCAA 25
        |||
Db      430 TCTCCTAGTCTATCCCAGGTGTCAA 406

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## RESULT 10

AY369393/c

LOCUS AY369393 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02002771 3' noncoding region, partial sequence.

ACCESSION AY369393

VERSION AY369393.1 GI:38326951

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

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misc_feature    <1..>464
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## ORIGIN

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Best Local Similarity 100.0%; Pred. No. 1.2e-05;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTCCTAGTCTATCCCAGGTGTCAA 25

|||||

Db 430 TCTCCTAGTCTATCCCAGGTGTCAA 406

## RESULT 11

AY369394/c

LOCUS AY369394 464 bp RNA linear VRL 24-NOV-2004

DEFINITION West Nile virus strain 02002831 3' noncoding region, partial sequence.

ACCESSION AY369394

VERSION AY369394.1 GI:38326952

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae; Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York, 2000-2002

JOURNAL Unpublished  
 REFERENCE 2 (bases 1 to 464)  
 AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
 Kramer,L.D.  
 TITLE Direct Submission  
 JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State  
 Farm Rd., Slingerlands, NY 12159, USA  
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## ORIGIN

Query Match 100.0%; Score 25; DB 13; Length 464;  
 Best Local Similarity 100.0%; Pred. No. 1.2e-05;  
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Qy 1 TCTCCTAGTCTATCCCAGGTGTCAA 25  
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 Db 430 TCTCCTAGTCTATCCCAGGTGTCAA 406

## RESULT 12

AY369395/c

LOCUS AY369395 464 bp RNA linear VRL 24-NOV-2004  
 DEFINITION West Nile virus strain 02002868 3' noncoding region, partial  
 sequence.

ACCESSION AY369395

VERSION AY369395.1 GI:38326953

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus

Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
 Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
 Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York,  
 2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
 Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State  
 Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

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## ORIGIN

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Best Local Similarity 100.0%; Pred. No. 1.2e-05;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 430 TCTCCTAGTCTATCCCAGGTGTCAA 406

## RESULT 13

AY369396/c

LOCUS AY369396 464 bp RNA linear VRL 24-NOV-2004  
DEFINITION West Nile virus strain 02003011 3' noncoding region, partial  
sequence.

ACCESSION AY369396

VERSION AY369396.1 GI:38326954

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus  
Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
Flavivirus; Japanese encephalitis virus group.

REFERENCE 1 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
Kramer,L.D.

TITLE Genetic and phenotypic variation of West Nile virus in New York,  
2000-2002

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 464)

AUTHORS Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and  
Kramer,L.D.

TITLE Direct Submission

JOURNAL Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State  
Farm Rd., Slingerlands, NY 12159, USA

FEATURES Location/Qualifiers

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/specific\_host="American Crow"  
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misc\_feature <1. .>464  
/note="3' noncoding region"

## ORIGIN

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Best Local Similarity 100.0%; Pred. No. 1.2e-05;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTCCTAGTCTATCCCAGGTGTCAA 25  
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Db 430 TCTCCTAGTCTATCCCAGGTGTCAA 406

## RESULT 14

AY369397/c

LOCUS AY369397 464 bp RNA linear VRL 24-NOV-2004  
DEFINITION West Nile virus strain 02003204 3' noncoding region, partial  
sequence.

ACCESSION AY369397

VERSION AY369397.1 GI:38326955

KEYWORDS .

SOURCE West Nile virus (WNV)

ORGANISM West Nile virus  
Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;

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REFERENCE 1 (bases 1 to 464)
AUTHORS   Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and
           Kramer,L.D.
TITLE     Genetic and phenotypic variation of West Nile virus in New York,
           2000-2002
JOURNAL   Unpublished
REFERENCE 2 (bases 1 to 464)
AUTHORS   Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and
           Kramer,L.D.
TITLE     Direct Submission
JOURNAL   Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State
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Best Local Similarity 100.0%;  Pred. No. 1.2e-05;
Matches 25;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

Qy      1 TCTCCTAGTCTATCCCAGGTGTCAA 25
        |||||||||||||||||||
Db      430 TCTCCTAGTCTATCCCAGGTGTCAA 406
    
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RESULT 15
AY369398/c
LOCUS     AY369398                464 bp    RNA        linear    VRL 24-NOV-2004
DEFINITION West Nile virus strain 02003535 3' noncoding region, partial
           sequence.
ACCESSION AY369398
VERSION   AY369398.1  GI:38326956
KEYWORDS  .
SOURCE    West Nile virus (WNV)
ORGANISM  West Nile virus
           Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;
           Flavivirus; Japanese encephalitis virus group.
REFERENCE 1 (bases 1 to 464)
AUTHORS   Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and
           Kramer,L.D.
TITLE     Genetic and phenotypic variation of West Nile virus in New York,
           2000-2002
JOURNAL   Unpublished
REFERENCE 2 (bases 1 to 464)
AUTHORS   Ebel,G.D., Carricaburu,J.E., Young,D.S., Bernard,K.A. and
           Kramer,L.D.
TITLE     Direct Submission
JOURNAL   Submitted (18-AUG-2003) DID, Wadsworth Center, NYSDOH, 5668 State
           Farm Rd., Slingerlands, NY 12159, USA
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                           /specific_host="American Crow"
    
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ORIGIN

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Qy            1 TCTCCTAGTCTATCCCAGGTGTCAA 25  
              |||||  
Db            430 TCTCCTAGTCTATCCCAGGTGTCAA 406

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